

## ABSTRACT

A TRF2 DNA-binding domain mutant protein comprising:

(a) a TRF2 DNA-binding domain mutant protein having an amino acid sequence as shown in SEQ ID NO: 2 but with at least one substitution selected from the group consisting of substitution of the lysine residue with arginine at position 10, substitution of the alanine residue with serine at position 34, substitution of the alanine residue with serine at position 47 and substitution of the arginine residue with lysine at position 59; or

(b) a TRF2 DNA-binding domain mutant protein having an amino acid sequence of the mutant protein of (a) above but with one or several amino acid residues other than the amino acid residues at positions 10, 34, 47 and 59 being deleted, substituted or added, and which has a higher binding ability to a duplex DNA comprising a sequence represented by 5'-TTAGGG-3' than a wild-type TRF2 DNA-binding domain protein having an amino acid sequence as shown in SEQ ID NO: 2; or

a salt of (a) or (b).